

CLAIMS:

1. An electricity distribution and/or power transmission network including input means for the input onto the network of a telecommunication signal having a carrier frequency greater than approximately 1MHz and output means for removing said telecommunication signal from the network.
2. A network according to claim 1 in which signals are transmissible in a plurality of directions simultaneously.
3. Communications apparatus for use with an electricity power distribution and/or transmission network, including a low pass filter portion for filtering out a low frequency high amplitude mains electricity power signal, and a coupling element for input and/or removal of a telecommunication signal from the network.
4. Communications apparatus according to claim 3 wherein the coupling element is suitable for use with a telecommunication signal having a carrier frequency of greater than 1MHz.
5. Communications apparatus according to claim 3 or claim 4 including a terminating element for terminating the apparatus in a similar impedance to the characteristic impedance of the network at that point.
6. Communications apparatus according to any one of claims 3, 4 or 5 including impedance matching means for impedance matching between reception/transmission devices and the electricity power distribution and/or transmission network.
7. A method of signal transmission including input of a telecommunications signal having a carrier frequency of greater than approximately 1MHz onto an electricity power distribution and/or transmission network, and subsequent reception of the signal.
8. A method according to claim 7 wherein the signal is injected onto only one of the phases of a three phase power cable.

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